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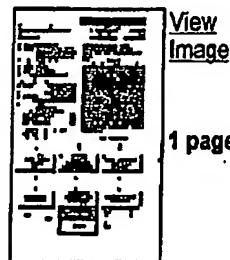
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>Title: JP2000302522A2: PRODUCTION OF FIBER REINFORCED CEMENT BOARD

Country: JP Japan

Kind: A2 Document Laid open to Public inspection!

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ECLA Code: C04B40/02D;

Priority Number: 1999-04-21 JP1999000114223

Abstract: PROBLEM TO BE SOLVED: To obtain a board having excellent freeze damage resistance, strength and dimensional stability and having a low specific gravity by specifying the molar ratio of CaO/amorphous silica of a raw material composition containing cement, silica and reinforcing fibers and subjecting the compsn. to a precurving, successively to an autoclave curing.

SOLUTION: The molar ratio of the CaO/amorphous silica of the raw material composition is specified to 3.0 to 12.0. A silica composition is preferably fly ash and the ratio thereof is preferably 10 to 60 pts.wt. (hereafter 'parts') to 100 parts cement. The reinforcing fibers include pulp fibers and the content thereof is preferably 12 to 17 parts per 100 parts cement. The precurving in a saturated steam state preferably involves the execution of secondary curing for 4 to 72 hours at 60 to 100°C after primary curing. The primary curing is preferably executed within 10 hours at a temperature below 60°C. The autoclave curing is preferably executed for 2 to 16 hours at 160 to 180°C. Consequently, the cement board having the specific gravity of about 1.20 to 1.45 is obtained.

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